

Section I - General Information

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Pat Quinn, Governor Marc Miller, Director

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2010 Annual Water Use Audit Form (LMO-2)

This form must be completed by all Category IA and IIB Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to the Department by January 3, 2011.

Name,	address and phone number of Permittee:
County	/
Name,	address and phone number of the contact person for the Permittee:
	e-mail address
	ized Official
Title	
Date	
Please	provide leak survey information and population estimates for the last year.
Popula	itionNumber of existing households

The Illinois Department of Natural Resources is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Chapter 19, Section 120.2 of the Illinois Revised Statutes. Disclosure of this information is required. Failure to provide any information will result in this form not being processed. This form has been approved by the Forms Management Center, Central Management Services.

Section II - Water Use Audit

Enter the amount of water pumped and utilized for each item shown below. All amounts entered in this section must be in units of million gallons per day (MGD) rounded off to 3 decimal places to the right of the decimal. Conversion calculations are provided for your use in Section IV to convert other commonly used units to MGD.

A. Pumpage Data

Water bought or received from the following distribution systems:

Lake Michigan Pumpage	MGD
Shallow Aquifer Pumpage	
Deep Aquifer Pumpage	MGD
4. Total Pumpage (Add lines 1, 2 & 3)	MGD
5. Water Treatment Use	MGD
Gross Annual Pumpage (subtract line 5 from line 4)	MOD

Water sold or provided to any other distribution systems (enter the name of each system and the amount sold or provided to that system on lines 7 through 12). If additional lines are required, attach an additional sheet listing each system and amount.

7				MGD
8				MGD
9				MGD
10				
11				
12.				MGD
13. Total (add lines 7-12 and any additional amounts	s)		• • • • • • • • • • • • • • • • • • • •	 MGD
14. Net Annual Pumpage (subtract line 13 from line	6)			MGD
	-/			
B. Uses.	Metered	Unmetered	Total	
15. Residential				MGD
16. Commercial and Manufacturing				
17. Municipal				MGD
18. Construction				
19. Total Uses (add Total lines 15 through 18)				
20. Percentage of Total Use to Net Annual Pumpage	 A			02
(divide line 19 by line 14 and multiply by 100)				%
(0				_,,
C. Hydrant Uses				
21. Firefighting and Training				MGD
22. Water Main Flushing				MGD
23. Sewer Cleaning			m m) :	
24. Street Cleaning				MGD
25. Construction				
26. Other (attach explanation)				
27. Total Hydrant Use (add lines 21 through 26)				MGD
28. Percentage of Hydrant Use to Net Annual Pump	ane			
(divide line 27 by line 14 and multiply by 100)				%
29. Department Requirement for Hydrant Use			1.0	^ %
30. Excessive hydrant use (subtract line 29 from line			1.0	/0
greater than 0.0, attach explanation. [see Rule 7	/20). II tile pei	ioonago io		%
greater than 0.0, attach explanation. [see Note 1	00.007 (0)]			/0

D. Unavoidable Leakage and Unaccounted for Flow

31. Maximum Unavoidable Leakage (Do worksheet in Section III;	
enter amount from line 10 of the worksheet)	MGD
32. Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage	
(divide line 31 by line 14 and multiply by 100)	%
33. Total Accounted for Flow (add lines 19, 27 and 31)	MGD
34. Percentage of Total Accounted for Flow to Net Annual Pumpage	
(divide line 33 by line 14 and multiply by 100)	%
35. Total Unaccounted for Flow (subtract amount on line 33 from line 14)	MGD
36. Percentage of Total Unaccounted for Flow to Net Annual Pumpage	
(divide line 35 by line 14 and multiply by 100)	%

Please Check Your Calculations

The sum of lines 33 and 35 should equal line 14. If they do not equal, recheck your calculations. The sum of lines 34 and 36 should equal approximately 100%. If not, check your calculations.

Section III - Maximum Unavoidable Leakage Worksheet

Complete the following calculations to determine your maximum unavoidable leakage. Enter the appropriate amounts in the spaces provided.

A. Cast Iron Pipes With Lead Joints

		Maximum
	Age of Pipe Miles of Pipe	Leakage Rate*Unavoidable Leakage**
1.	60 yrs. or greater	x 3000 g/d/mi = g/d
2.	40-60 yrs	x 2500 g/d/mi = g/d
3.	20-40 yrs	x 2000 g/d/mi = g/d
	20 yrs. or less	x 1500 g/d/mi = g/d
B.	All Other Types of Pipes and Joints	
5.	60 yrs. or greater	x 2500 g/d/mi = g/d
6.	40-60 yrs	
	20-40 yrs	
8.	20 yrs. or less	
	Total Miles	Total Leakageg/d
10.	Total Maximum Unavoidable Leakage,	in MGD (divide total leakage on line 9 by
	1,000,000)	MGD
	(Enter this amount on line 31)	

Leakage Rate expressed in gallons per day per mile (g/d/mi)

Section IV - Conversion Table

To convert cubic feet per year (cf) to (MGD) use:

cf x $7.48 \div 1,000,000 \div 365 = MGD$

To convert gallons per year (g) to (MGD) use:

 $q \div 1,000,000 \div 365 = MGD$

To convert gallons per day (g/d) to (MGD) use:

 $g/d \div 1,000,000 = MGD$

To convert million gallons per year (mg) to (MGD) use:

 $mg \div 365 = MGD$

^{**} Maximum Unavoidable Leakage expressed in gallons per day (g/d)